

1. A substantially pure immunogenic polypeptide having a sequence consisting essentially of SEQ ID NO: 81 or a subsequence of SEQ ID NO: 81 that comprises amino acids 2 to 13 of SEQ ID NO: 101.

2. The substantially pure immunogenic polypeptide of claim 1, wherein said sequence consists essentially of SEQ ID NO: 81 or amino acids 2 to 13 of SEQ ID NO: 101.

3. A substantially pure nucleic acid encoding an immunogenic polypeptide having a sequence consisting essentially of SEQ ID NO: 81 or a subsequence of SEQ ID NO: 81 that comprises amino acids 2 to 13 of SEQ ID NO: 101.

4. The substantially pure nucleic acid of claim 6, wherein said sequence consists essentially of SEQ ID NO: 81 or amino acids 2 to 13 of SEQ ID NO: 101.

5. A substantially pure antibody that specifically binds to a polypeptide having a sequence consisting essentially of SEQ ID NO: 81 or a subsequence of SEQ ID NO: 81 that comprises amino acids 2 to 13 of SEQ ID NO: 101.

10020269-121401
FOIA b7E